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PATENT

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In the United States Patent & Trademark Office

Applicants: M. Seul et al.	Examiner: P. Kim
Serial No.: 10/098,604	Group Art Unit: 2851
Filed: 3/16/2002 Confirmation No. 7665	
For: System and method for programmable illumination pattern generation	I hereby certify that, on the date indicated below, this correspondence was sent by fax to the Commissioner for Patents, at (571) 273-8300. By: _____ Date: _____

Amendment

Commissioner for Patents
PO BOX 1450
Alexandria VA 22313-1450

Dear Sir:

In response to the Office Action of 8/9/2005, Applicant requests entry of the claim listing enclosed, and reconsideration of the rejections in view of the following remarks.

In the Abstract

Please delete the existing abstract, and substitute the following new abstract:

~~A method and apparatus for the manipulation of colloidal particulates and biomolecules at the interface between an insulating electrode such as silicon oxide and an electrolyte solution. Light-controlled electrokinetic assembly of particles near surfaces relies on the combination of three functional elements: the AC electric field-induced assembly of planar aggregates; the patterning of the electrolyte/silicon oxide/silicon interface to exert spatial control over the assembly process; and the real time control of the assembly process via external illumination. The present invention provides a set of fundamental operations enabling interactive control over the creation and placement of planar arrays of several types of particles and biomolecules and the manipulation of array shape and size. The present invention enables sample preparation and~~